

1/25

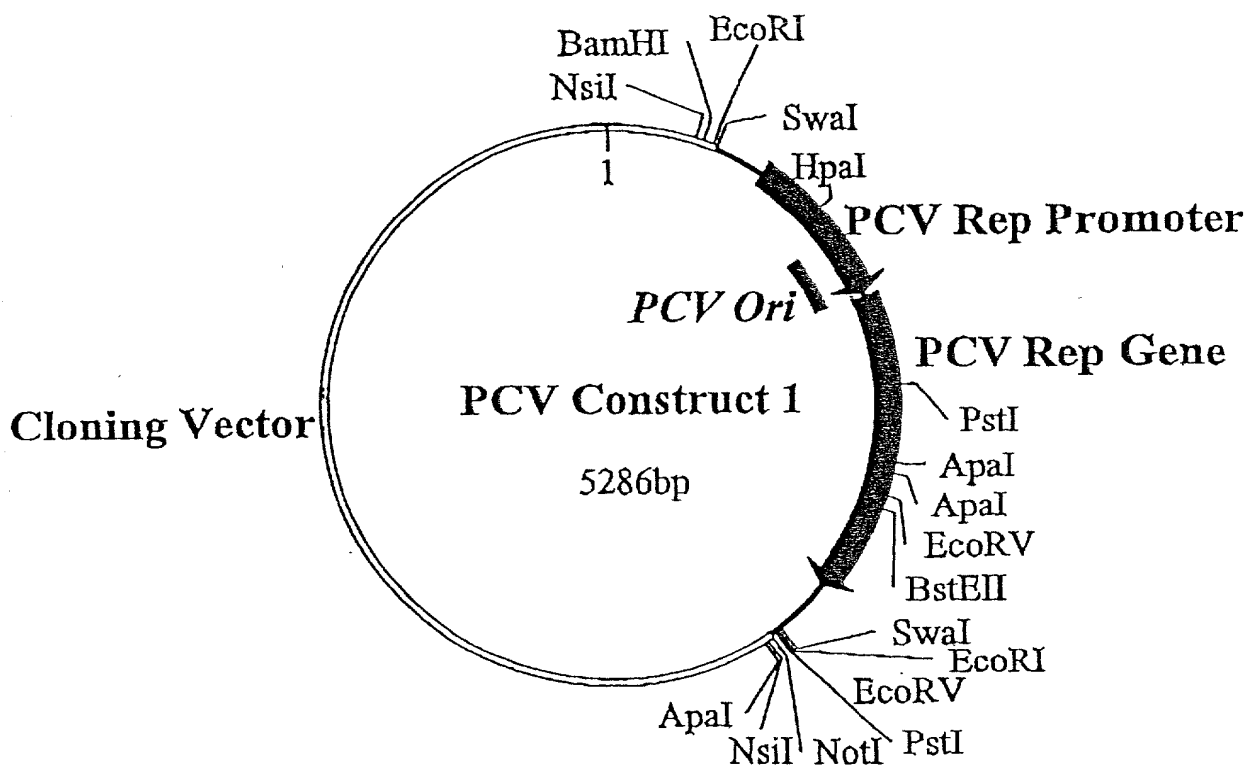


Figure 1

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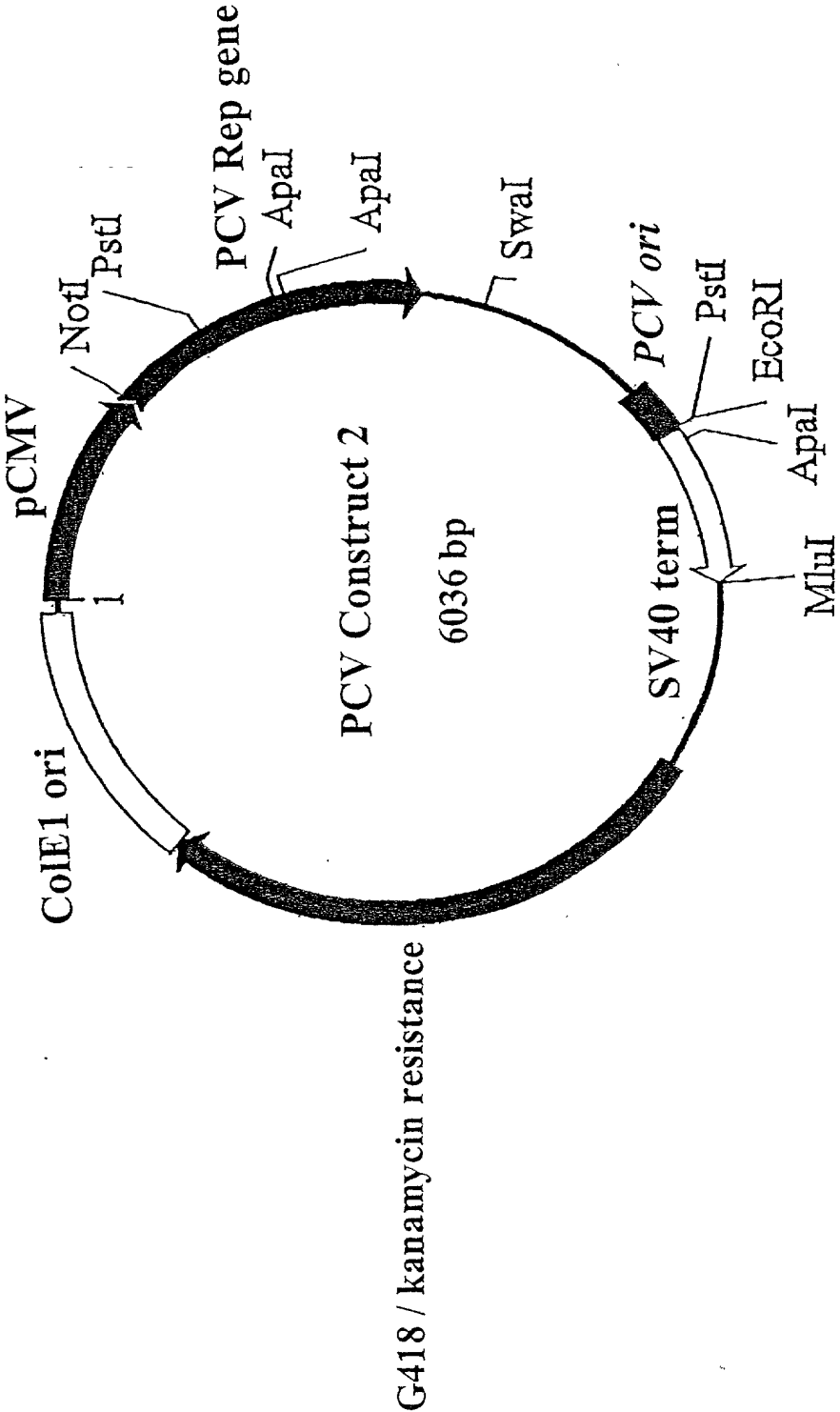


Figure 2

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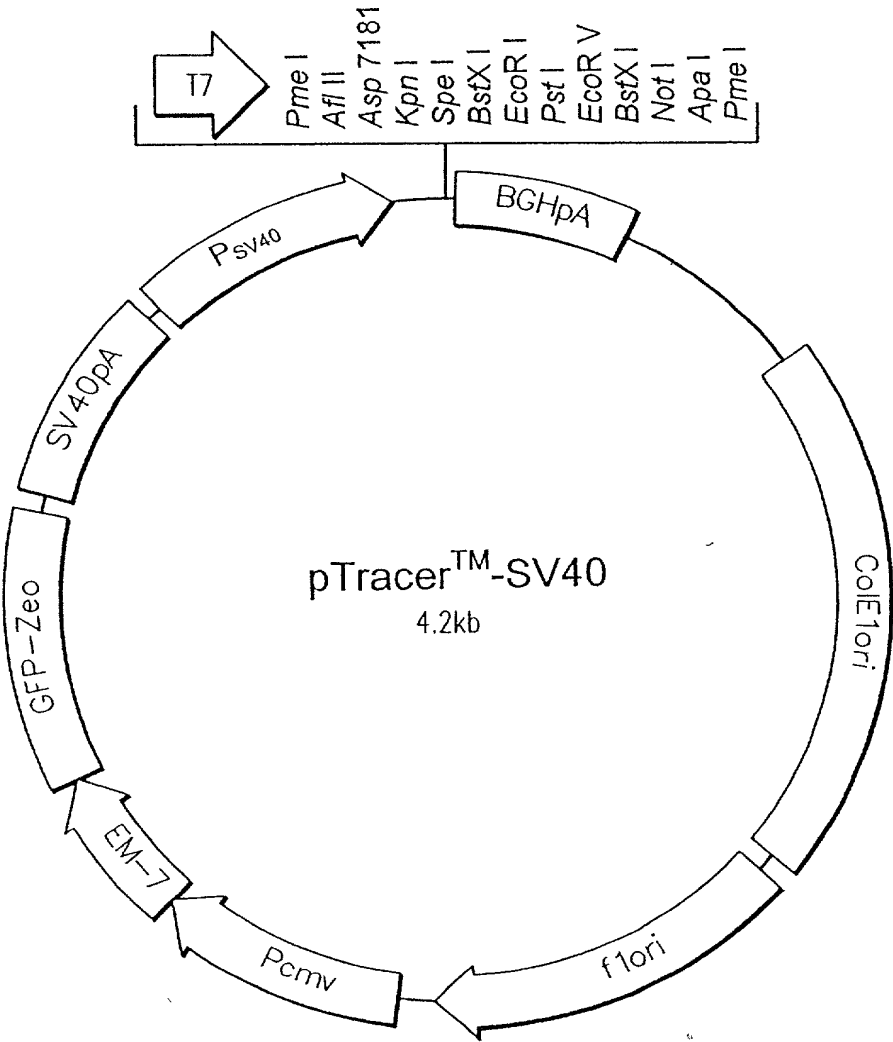


Figure 3

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20



Replicating  
DNA forms,  
undigested by  
*DpnI*.

Input DNA  
digested with  
*DpnI*.

Figure 4

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## ORIGIN

1 AGCGCCCAAT ACGCAAACCG CCTCTCCCCG CGCGTTGGCC GATTCATTAA TGCAGCTGGC  
61 ACGACAGGTT TCCCGACTGG AAAGCGGGCA GTGAGCGCAA CGCAATTAAT GTGAGTTAGC  
121 TCACTCATTG GGCACCCAG GCTTTACACT TTATGCTTCC GGCTCGTATG TTGTGTGGAA  
181 TTGTGAGCGG ATAACAATT CACACAGGAA ACAGCTATGA CCATGATTAC GCCAAGCTAT  
241 TTAGGTGACA CTATAGAATA CTCAAGCTAT GCATCAAGCT TGGTACCGAG CTCGGATCCA  
301 CTAGTAACGG CCGCCAGTGT GCTGGAATTC GCCCTTATTT AAATGGAGCC ACAGCTGGTT  
361 TCTTTTATTA TTTGGGTGGA ACCAATCAAT TGTTTGGTCC AGCTCAGGTT TGGGGGTGAA  
421 GTACCTGGAG TGGTAGGTAA AGGGCTGCCT TATGGTGTGG CGGGAGGAGT AGTTAATATA  
481 GGGGTCATAG GCCAAGTTGG TGGAGGGGGT TACAAAGTTG GCATCCAAGA TAACAACAGT  
541 GGACCCAACA CCTCTTTGAT TAGAGGTGAT GGGGTCTCTG GGGTAAATTT CATATTTAGC  
601 CTTTCTAATA CGGTAGTATT GGAAAGGTAG GGGTAGGGGG TTGGTGCCGC CTGAGGGGGG  
661 GAGGAACGAG CCGATGTTGA ATTTGAGGTA GTTAACATTG CAAGATGGCT GCGAGTATCC  
721 TCCTTTTATG GTGAGTACAA ATTTCTGTAGA AAGGCGGGAA TTGAAGATAC CCGTCTTTTCG  
781 GCGCCATCTG TAACGGTTTC TGAAGGCGGG GTGTGCCAAA TATGGTCTTC TCCGGAGGAT  
841 GTTTCCTAAGA TGGCTGCGGG GCGGGGTCTT TCTTCTGCGG TAACGCCTCC TTGGCCACGT  
901 CATCCTATAA AAGTGAAAGA AGTGCCTGCT TGTAGTATTA CCAGCGCACT TCGGCAGCGG  
961 CAGCACCTCG GCAGCGTCAG TGAATATGCC AAGCAAGAAA AGCGGCCCGC AACCCCATAA  
1021 GAGGTGGGTG TTCACCTTA ATAATCCTTC CGAGGAGGAG AAAACAAAAA TACGGGAGCT  
1081 TCCAATCTCC CTTTTTGATT ATTTTGTTCG CGGAGAGGAA GGTTTGGAAG AGGGTAGAAC  
1141 TCCTCACCTC CAGGGGTTCG CGAATTTTGC TAAGAAGCAG ACTTTTAACA AGGTGAAGTG  
1201 GTATTTTGGT GCGCGCTGCC ACATCGAGAA AGCGAAAGGA ACCGACCAGC AGAATAAAGA  
1261 ATACTGCACT AAAGAAGGCC ACATACTTAT CGAGTGTGGA GCTCCGCGGA ACCAGGGGAA  
1321 GCGCAGCGAC CTGTCTACTG CTGTGAGTAC CCTTTTGGAG ACGGGGTCTT TGGTGACTGT  
1381 AGCCGAGCAG TTCCCTGTAA CGTATGTGAG AAATTTCCGC GGGCTGGCTG AACTTTTGAA  
1441 AGTGAGCGGG AAGATGCAGC AGCGTGATTG GAAGACAGCT GTACACGTCA TAGTGGGCCC  
1501 GCGCGGTTGT GGGAAGAGCC AGTGGGCCCC TAATTTTGCT GAGCCTAGGG ACACCTACTG  
1561 GAAGCCTAGT AGAAATAAGT GGTGGGATGG ATATCATGGA GAAGAAGTTG TTGTTTGGAA  
1621 TGATTTTATG GGCTGGTTAC CTTGGGATGA TCTACTGAGA CTGTGTGACC GGTATCCATT  
1681 GACTGTAGAG ACTAAAGGGG GTACTGTTCC TTTTGTGGCC CGCAGTATTT TGATTACCAG  
1741 CAATCAGGCC CCCCAGGAAT GGTACTCCTC AACTGCTGTC CCAGCTGTAG AAGCTCTCTA  
1801 TCGGAGGATT ACTACTTTGC AATTTTGGAA GACTGCTGGA GAACAATCCA CGGAGGTACC  
1861 CGAAGGCCGA TTTGAAGCAG TGGACCACCC CTGTGCCCTT TTCCCATATA AAATAAATTA  
1921 CTAGGATCTT TTTGTATCA CATCGTAATG GTTTTATTTT TTATTTATTT AGAGGGTCTT  
1981 TTAGGATAAA TTCTCTGAAT TGTACATAAA TAGTCAGCCT TACCACATAA TTTTGGGCTG  
2041 TGGCTGCATT TTGGAGCGCA TAGCCGAGGC CTGTGTGCTC GACATTGGTG TGGGTATTTA  
2101 AAAAGGGCGA ATTCTGCAGA TATCCATCAC ACTGGCGGCC GCTCGAGCAT GCATCTAGAG  
2161 GGCCCAATTC GCCCTATAGT GAGTCGTATT ACAATTCACT GGCCGTCGTT TTACAACGTC  
2221 GTGACTGGGA AAACCTTGGC GTTACCCAAC TTAATCGCCT TGCAGCACAT CCCCCTTTTCG  
2281 CCAGCTGGCG TAATAGCGAA GAGGCCCGCA CCGATCGCCC TTCCCAACAG TTGCGCAGCC  
2341 TATACGTACG GCAGTTTAAG GTTTACACCT ATAAAAGAGA GAGCCGTTAT CGTCTGTTTG  
2401 TGGATGTACA GAGTGATATT ATTGACACGC CGGGGCGACG GATGGTGATC CCCCTGGCCA  
2461 GTGCACGTCT GCTGTCAGAT AAAGTCTCCC GTGAACTTTA CCCGGTGGTG CATATCGGGG  
2521 ATGAAAGCTG GCGCATGATG ACCACCGATA TGGCCAGTGT GCCCGTCTCC GTTATCGGGG  
2581 AAGAAGTGGC TGATCTCAGC CACCGCGAAA ATGACATCAA AAACGCCATT AACCTGATGT  
2641 TCTGGGAAT ATAAATGTCA GGCATGAGAT TATCAAAAAG GATCTTCACC TAGATCCTTT  
2701 TCACGTAGAA AGCCAGTCCG CAGAAAACGG GTGACCCCG GATGAATGTC AGTACTGGG  
2761 CTATCTGGAC AAGGGAAAAC GCAAGCGCAA AGAGAAAGCA GGTAGCTTGC AGTGGGCTTA  
2821 CATGGCGATA GCTAGACTGG GCGGTTTAT GGACAGCAAG CGAACCGGAA TTGCCAGCTG  
2881 GGGCGCCCTC TGGTAAGGTT GGGGAAGCCCT GCAAAGTAAA CTGGATGGCT TTCTCGCCCG  
2941 CAAGGATCTG ATGGCGCAGG GGATCAAGCT CTGATCAAGA GACAGGATGA GGATCGTTTC

Figure 5-1

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3001 GCATGATTGA ACAAGATGGA TTGCACGCAG GTTCTCCGGC CGCTTGGGTG GAGAGGCTAT  
 3061 TCGGCTATGA CTGGGCACAA CAGACAATCG GCTGCTCTGA TGCCGCCGTG TTCCGGCTGT  
 3121 CAGCGCAGGG GCGCCCGGTT CTTTTTGTCA AGACCGACCT GTCCGGTGCC CTGAATGAAC  
 3181 TGCAAGACGA GGCAGCGCGG CTATCGTGCG TGGCCACGAC GGGCGTTCCT TGCGCAGCTG  
 3241 TGCTCGACGT TGTCAC TGAA GCGGGAAGG ACTGGCTGCT ATTGGGCGAA GTGCCGGGGC  
 3301 AGGATCTCCT GTCATCTCAC CTTGCTCCTG CCGAGAAAGT ATCCATCATG GCTGATGCAA  
 3361 TGCGGCGGCT GCATACGCTT GATCCGGCTA CCTGCCATT CGACCACCAA GCGAAACATC  
 3421 GCATCGAGCG AGCACGTA CTGGAAG CCGGTCTTGT CGATCAGGAT GATCTGGACG  
 3481 AAGAGCATCA GGGGCTCGCG CCAGCCGAAC TGTTCCGCGAG GCTCAAGGCG AGCATGCCCG  
 3541 ACGGCGAGGA TCTCGTCTG ACCCATGGCG ATGCCTGCTT GCCGAATATC ATGGTGAAAA  
 3601 ATGGCCGCTT TTCTGGATT CACTGCTGTG GCCGGCTGGG TGTGGCGGAC CGCTATCAGG  
 3661 ACATAGCGTT GGCTACCCGT GATATTGCTG AAGAGCTTGG CGGCGAATGG GCTGACCGCT  
 3721 TCCTCGTGCT TTACGGTATC GCCGCTCCCG ATTTCGACGCG CATCGCCTTC TATCGCCTTC  
 3781 TTGACGAGTT CTTCTGAATT ATTAACGCTT ACAATTTCTT GATGCGGTAT TTTCTCCTTA  
 3841 CGCATCTGTG CGGTATTTCA CACCGCATAC AGGTGGCACT TTTCGGGGAA ATGTGCGCGG  
 3901 AACCCCTATT TGTTTATTTT TCTAAATACA TTCAAATATG TATCCGCTCA TGAGACAATA  
 3961 ACCCTGATAA ATGCTTCAAT AATAGCACGT GAGGAGGGCC ACCATGGCCA AGTTGACCAG  
 4021 TGCCGTTCCG GTGCTCACCG CGCGCGACGT CGCCGGAGCG GTCGAGTTCT GGACCGACCG  
 4081 GCTCGGGTTC TCCCGGGA CTGAGGAGGA CGACTTCGCC GGTGTGGTCC GGGACGACGT  
 4141 GACCCTGTTT ATCAGCGCGG TCCAGGACCA GGTGGTGCCG GACAACACCC TGGCCTGGGT  
 4201 GTGGGTGCGC GGCCTGGACG AGCTGTACGC CGAGTGGTGC GAGGTCGTGT CCACGAACCT  
 4261 CCGGGACGCC TCCGGGCCCG CCATGACCGA GATCGGCGAG CAGCCGTGGG GCGGGGAGTT  
 4321 CGCCCTGCGC GACCCGGCCG GCAACTGCGT GCACTTCGTG GCCGAGGAGC AGGACTGACA  
 4381 CGTGCTAAAA CTTTATTTT AATTTAAAG GATCTAGGTG AAGATCCTTT TTGATAATCT  
 4441 CATGACCAAA ATCCCTTAAC GTGAGTTTTC GTTCCACTGA GCGTCAGACC CCGTAGAAAA  
 4501 GATCAAAGGA TCTTCTTGAG ATCCTTTTTT TCTGCGCGTA ATCTGCTGCT TGCAAAACAAA  
 4561 AAAACCACCG CTACCAGCGG TGGTTTGT TTGCCGATCAA GAGCTACCAA CTCTTTTTTCC  
 4621 GAAGGTA ACT GGCTTCAGCA GAGCGCAGAT ACCAAATACT GTCCTTCTAG TGTAGCCGTA  
 4681 GTTAGGCCAC CACTTCAAGA ACTCTGTAGC ACCGCCTACA TACCTCGCTC TGCTAATCCT  
 4741 GTTACAGTG GCTGCTGCCA GTGGCGATAA GTCGTGTCTT ACCGGGTTGG ACTCAAGACG  
 4801 ATAGTTACCG GATAAGGCGC AGCGGTCGGG CTGAACGGGG GGTTCGTGCA CACAGCCCAG  
 4861 CTTGGAGCGA ACGACCTACA CCGA ACTGAG ATACCTACAG CGTGAGCTAT GAGAAAGCGC  
 4921 CACGCTTCCC GAAGGGAGAA AGGCGGACAG GTATCCGGTA AGCGGCAGGG TCGGAACAGG  
 4981 AGAGCGCAG AGGGAGCTTC CAGGGGAAA CGCCTGGTAT CTTTATAGTC CTGTCGGGTT  
 5041 TCGCCACCTC TGACTTGAGC GTCGATTTT GTGATGCTCG TCAGGGGGG GAGCCTATG  
 5101 GAAAAACGCC AGCAACGCGG CTTTTTTACG GTTCTTGGG TTTTGCTGGC CTTTTGCTCA  
 5161 CATGTTCTTT CCTGCGTTAT CCCCTGATTC TGTGGATAAC CGTATTACCG CTTTTGAGTG  
 5221 AGCTGATACC GCTCGCCGCA GCCGAACGAC CGAGCGCAGC GAGTCAGTGA GCGAGGAAGC  
 5281 GGAAG

Figure 5-2

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1 GGATCGATCC GGCTGTGGAA TGTGTGTCAG TTAGGGTGTG GAAAGTCCCC AGGCTCCCCA  
61 GCAGGCAGAA GTATGCAAAG CATGCATCAA GCTTGGTACC GAGCTCGGAT CCACTAGTAA  
121 CGGCCGCCAG TGTGCTGGAA TTCGCCCTTA TTTAAATGGA GCCACAGCTG GTTTCTTTTA  
181 TTATTTGGGT GGAACCAATC AATTGTTTGG TCCAGCTCAG GTTTGGGGGT GAAGTACCTG  
241 GAGTGGTAGG TAAAGGGCTG CCTTATGGTG TGGCGGGAGG AGTAGTTAAT ATAGGGGTCA  
301 TAGGCCAAGT TGGTGGAGGG GGTACAAAG TTGGCATCCA AGATAACAAC AGTGGACCCA  
361 ACACCTCTTT GATTAGAGGT GATGGGGTCT CTGGGGTAAA ATTCATATTT AGCCTTTCTA  
421 ATACGGTAGT ATTGGAAAGG TAGGGGTAGG GGGTTGGTGC CGCCTGAGGG GGGGAGGAAC  
481 TGGCCGATGT TGAATTTGAG GTAGTTAACA TTCCAAGATG GCTGCGAGTA TCCTCCTTTT  
541 ATGGTGAGTA CAAATTCGTG AGAAAGGCGG GAATTGAAGA TACCCGTCTT TCGGCGCCAT  
601 CTGTAACGGT TTCTGAAGGC GGGGTGTGCC AAATATGGTC TTCTCCGGAG GATGTTTCCA  
661 AGATGGCTGC GGGGGCGGGT CCTTCTTCTG CGGTAACGCC TCCTTGGCCA CGTCATCCTA  
721 TAAAAGTGAA AGAAGTGCGC TGCTGTAGTA TTACCAGCGC ACTTCGGCAG CGGCAGCACC  
781 TCGGCAGCGT CAGTGAAAAT GCCAAGCAAG AAAAGCGGCC CGCAACCCCA TAAGAGGTGG  
841 GTGTTTACCC TTAATAATCC TTCCGAGGAG GAGAAAAACA AAATACGGGA GCTTCCAATC  
901 TCCCTTTTTG ATTATTTTGT TTGCGGAGAG GAAGGTTTGG AAGAGGGTAG AACTCCTCAC  
961 CTCCAGGGGT TTGCGAATTT TGCTAAGAAG CAGACTTTTA ACAAGGTGAA GTGGTATTTT  
1021 GGTGCCCCGT GCCACATCGA GAAAGCGAAA GGAACCGACC AGCAGAATAA AGAATACTGC  
1081 AGTAAAGAAG GCCACATACT TATCGAGTGT GGAGCTCCGC GGAACCGAGG GAAGCGCAGC  
1141 GACCTGTCTA CTGCTGTGAG TACCCTTTTG GAGACGGGGT CTTTGGTGAC TGTAGCCGAG  
1201 CAGTTCCCTG TAACGTATGT GAGAAATTTT CGCGGGCTGG CTGAACTTTT GAAAGTGAGC  
1261 GGGAAAGATGC AGCAGCGTGA TTGGAAGACA GCTGTACACG TCATAGTGGG CCCGCCCGGT  
1321 TGTGGGAAGA GCCAGTGGGC CCGTAATTTT GCTGAGCCTA GGGACACCTA CTGGAAGCCT  
1381 AGTAGAAATA AGTGGTGGGA TGGATATCAT GGAGAAGAAG TTGTTGTTTT GGATGATTTT  
1441 TATGGCTGGT TACCTTGGGA TGATCTACTG AGACTGTGTG ACCGGTATCC ATTGACTGTA  
1501 GAGACTAAAG GGGGTACTGT TCCTTTTTTTG GCCCAGAGTA TTTTGATTAC CAGCAATCAG  
1561 GCCCCCAGG AATGGTACTC CTCAACTGCT GTCCCAGCTG TAGAAGCTCT CTATCGGAGG  
1621 ATTACTACTT TGCAATTTTG GAAGACTGCT GGAGAACAAT CCACGGAGGT ACCCGAAGGC  
1681 CGATTTGAAG CAGTGGACCC ACCCTGTGCC CTTTTCCCAT ATAAAATAAA TTAGTGAGTC  
1741 TTTTTTGT TAACATCGTA ATGGTTTTTA TTTTTATTTA TTTAGAGGT CTTTTAGGAT  
1801 AAATTCCTG AATTGTACAT AAATAGTCAG CCTTACCACA TAATTTTGGG CTGTGGCTGC  
1861 ATTTTGGAGC GCATAGCCGA GGCCTGTGTG CTCGACATTG GTGTGGGTAT TTAAATAAGG  
1921 GCGAATTCTG CAGATATCCA TCACACTGGC GGCCGCTCGA GTCTAGAGGG CCCGTTTAAA  
1981 CCCGCTGATC AGCCTCGACT GTGCCTTCTA GTTGCCAGCC ATCTGTTGTT TGCCCCTCCC  
2041 CCGTGCCTTC CTTGACCCTG GAAGGTGCCA CTCCCCTGT CTTTTCTAA TAAAATGAGG  
2101 AAATTGCATC GCATTGTCTG AGTAGGTGTC ATTCTATTCT GGGGGGTGGG GTGGGGCAGG  
2161 ACAGCAAGGG GGAGGATTGG GAAGACAATA GCAGGCATGC TGGGGATGCG GTGGGCTCTA  
2221 TGGCTTCTGA GCGGAAAGA ACCAGCATGT GAGCAAAAGG CCAGCAAAAG GCCAGGAACC  
2281 GTAAAAAGGC CGCGTTGCTG GCGTTTTTCC ATAGGCTCCG CCCCCCTGAC GAGCATCACA  
2341 AAAATCGACG CTCAAGTCAG AGGTGGCGAA ACCCGACAGG ACTATAAAGA TACCAGGCGT  
2401 TTCCCCCTGG AAGCTCCCTC GTGCGCTCTC CTGTTCCGAC CCTGCCGCTT ACCGGATACC  
2461 TGTCCGCTT TCTCCCTTCG GGAAGCGTGG CGCTTTCTCA TAGCTACCGC TGTAGGTATC  
2521 TCAGTTCGGT TAGGTCGTT CGTCCAAGC TGGGCTGTGT GCACGAACCC CCGTTTCAGC  
2581 CCGACCGCTG CGCCTTATCC GGTAACTATC GTCTTGAGTC CAACCCGGTA AGACACGACT  
2641 TATCGCCACT GGCAGCAGCC ACTGGTAACA GGATTAGCAG AGCGAGGTAT GTAGGCGGTG  
2701 CTACAGAGTT CTTGAAGTGG TGGCCTAACT ACGGCTACAC TAGAAGAACA GTATTTGGTA  
2761 TCTGCGCTCT GCTGAAGCCA GTTACCTTCG GAAAAAGAGT TGGTAGCTCT TGATCCGGCA  
2821 AACAAACCAC CGCTGGTAGC GGTGGTTTTT TTGTTTGCAA GCAGCAGATT ACGCGCAGAA

Figure 6-1

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2881 AAAAAGGATC TCAAGAAGAT CCTTTGATCT TTTCTACGGG GTCTGACGCT CAGTGGAACG  
 2941 AAAACTCACG TTAAGGGATT TTGGTCATGA CATTAACCTA TAAAAATAGG CGTATCACGA  
 3001 GGCCCTTTTCG TCTCGCGCGT TTCGGTGATG ACGGTGAAAA CCTCTGACAC ATGCAGCTCC  
 3061 CGGAGACGGT CACAGCTTGT CTGTAAGCGG ATGCCGGGAG CAGACAAGCC CGTCAGGGCG  
 3121 CGTCAGCGGG TGTGCGGGG TGTCGGGGCT GGCTTAAC TAAGGTAAGG AGAAAAATACC  
 3181 TACTGAGAGT GCACCATATG CCGTGTGAAA TACCGCACAG ATGCGTAAGG AGAAAAATACC  
 3241 GCATCAGGAC GCGCCCTGTA GCGGCGCATT AAGCGCGGCG GGTGTGGTGG TTACGCGCAG  
 3301 CGTGACCGCT ACACTTGCCA GCGCCCTAGC GCCCGCTCCT TTCGCTTTCT TCCCTTCCTT  
 3361 TCTCGCCACG TTCGCCGGCT TTCCCCGTCA AGCTCTAAAT CGGGGGCTCC CTTTAGGGTT  
 3421 CCGATTTAGT GCTTTACGGC ACCTCGACCC CAAAAAATT GATTAGGGTG ATGGTTCACG  
 3481 TAGTGGGCCA TCGCCCTGAT AGACGGTTTT TCGCCCTTTG ACGTTGGAGT CCACGTTCTT  
 3541 TAATAGTGGA CTCTTGTTC AAACCTGGAAC AACACTCAAC CCTATCTCGG TCTATTCTTT  
 3601 TGATTTATAA GGGATTTTGC CGATTTTCGGC CTATTGGTTA AAAAATGAGC TGATTTAACA  
 3661 AAAATTTAAC GCGAATTTTA ACAAATATTT AACGCTTACA ATTTCCATTG GCCATTTCAGG  
 3721 CTGAAC TAGA TCTAGAGTCC GTTACATAAC TTACGGTAAA TGGCCCGCCT GGTGACCGC  
 3781 CCAACGACCC CCGCCCATG ACGTCAATAA TGACGTATGT TCCCATAGTA ACGCCAATAG  
 3841 GGACTTTCCA TTGACGTCAA TGGGTGGAGT ATTTACGGTA AACTGCCCCAC TTGGCAGTAC  
 3901 ATCAAGTGA TCATATGCCA AGTACGCCCC CTATTGACGT CAATGACGGT AAATGGCCCCG  
 3961 CCTGGCATTG TGCCCAGTAC ATGACCTTAT GGGACTTTCC TACTTGGCAG TACATCTACG  
 4021 TATTAGTCAT CGCTATTACC ATGGTGATGC GGTTTTGGCA GTACATCAAT GGGCGTGGAT  
 4081 AGCGGTTTGA CTCACGGGGA TTTCCAAGTC TCCACCCCAT TGACGTCAAT GGGAGTTTGT  
 4141 TTTGGCACCA AAATCAACGG GACTTTCCAA AATGTCGTAA CAACTCCGCC CCATTGACGC  
 4201 AAATGGGCGG TAGGCGTGTA CCGTGGGAGG TCTATATAAG CAGAGCTCGT TTAGTGAACC  
 4261 GTCAGATCGC CTGGAGACGC CATCCACGCT GTTTTGACCT CCATAGAAGA CACCGGGACC  
 4321 GATCCAGCCT CCGCGGCCGG GAACGGTGCA TTGGAACGGA CCGTGTGAG AATTAATCAT  
 4381 CGGCATAGTA TATCGGCATA GTATAATACG ACAAGGTGAG GAATAAACC ATGGCTAGCA  
 4441 AAGGAGAAGA ACTTTTCACT GGAGTTGTCC CAATTCTTGT TGAATTAGAT GGTGATGTTA  
 4501 ATGGGCACAA ATTTTCTGTC AGTGGAGAGG GTGAAGGTGA TGCTACATAC GGAAAGCTTA  
 4561 CCCTTAAATT TATTTGCACT ACTGGAAC TACCTGTTC ATGGCCAACA CTTGTCACTA  
 4621 CTTTCTCTTA TGGTGTTC AA TGCTTTTCCC GTTATCCGGA TCATATGAAA CGGCATGACT  
 4681 TTTTCAAGAG TGCCATGCCC GAAGGTTATG TACAGGAACG CACTATATCT TTCAAAGATG  
 4741 ACGGGAAC TA CAAGACGCGT GCTGAAGTCA AGTTTGAAGG TGATACCCTT GTTAATCGTA  
 4801 TCGAGTTAAA AGGTATTGAT TTTAAAGAAG ATGGAAACAT TCTCGGACAC AAACCTCGAGT  
 4861 ACAACTATAA CTCACACAAT GTATACATCA CGGCAGACAA ACAAAGAAT GGAATCAAAG  
 4921 CTAACCTCAA AATTGCGCCAC AACATTGAAG ATGGATCCGT TCAACTAGCA GACCATTATC  
 4981 AACAAAATAC TCCAATTGGC GATGGCCCTG TCCTTTTACC AGACAACCAT TACCTGTCTGA  
 5041 CACAATCTGC CTTTTCGAAA GATCCCAACG AAAAGCGTGA CCACATGGTC CTTCTTGAGT  
 5101 TTGTAACCTG TGCTGGGATT ACACATGGCA TGGATGCCAA GTTGACCACT GCCGTTCCGG  
 5161 TGCTCACCGC GCGCGACGTC GCCGGAGCGG TCGAGTTCTG GACCGACCGG CTCGGGTTCT  
 5221 CCCGGGACTT CGTGGAGGAC GACTTCGCCG GTGTGGTCCG GGACGACGTG ACCCTGTTCA  
 5281 TCAGCGCGGT CCAGGACCAG GTGGTGCCGG ACAACACCCT GGCCTGGGTG TGGGTGCGCG  
 5341 GCCTGGACGA GCTGTACGCC GAGTGGTCCG AGGTCTGTG CACGAACCTC CGGGACGCCT  
 5401 CCGGGCCGGC CATGACCGAG ATCGGCGAGC AGCCGTGGGG GCGGGAGTTC GCCCTGCGCG  
 5461 ACCCGGCCGG CAACTGCGTG CACTTCGTGG CCGAGGAGCA GGAAGTACAC TCGACCTCGA  
 5521 AACTTGTTTA TTGCAGCTTA TAATGGTTAC AAATAAAGCA ATAGCATCAC AAATTTTACA  
 5581 AATAAAGCAT TTTTTTCACT GCATTCTAGT TGTGGTTTGT CCAAACCTCAT CAATGTATCT  
 5641 TATCATGTCT

Figure 6-2



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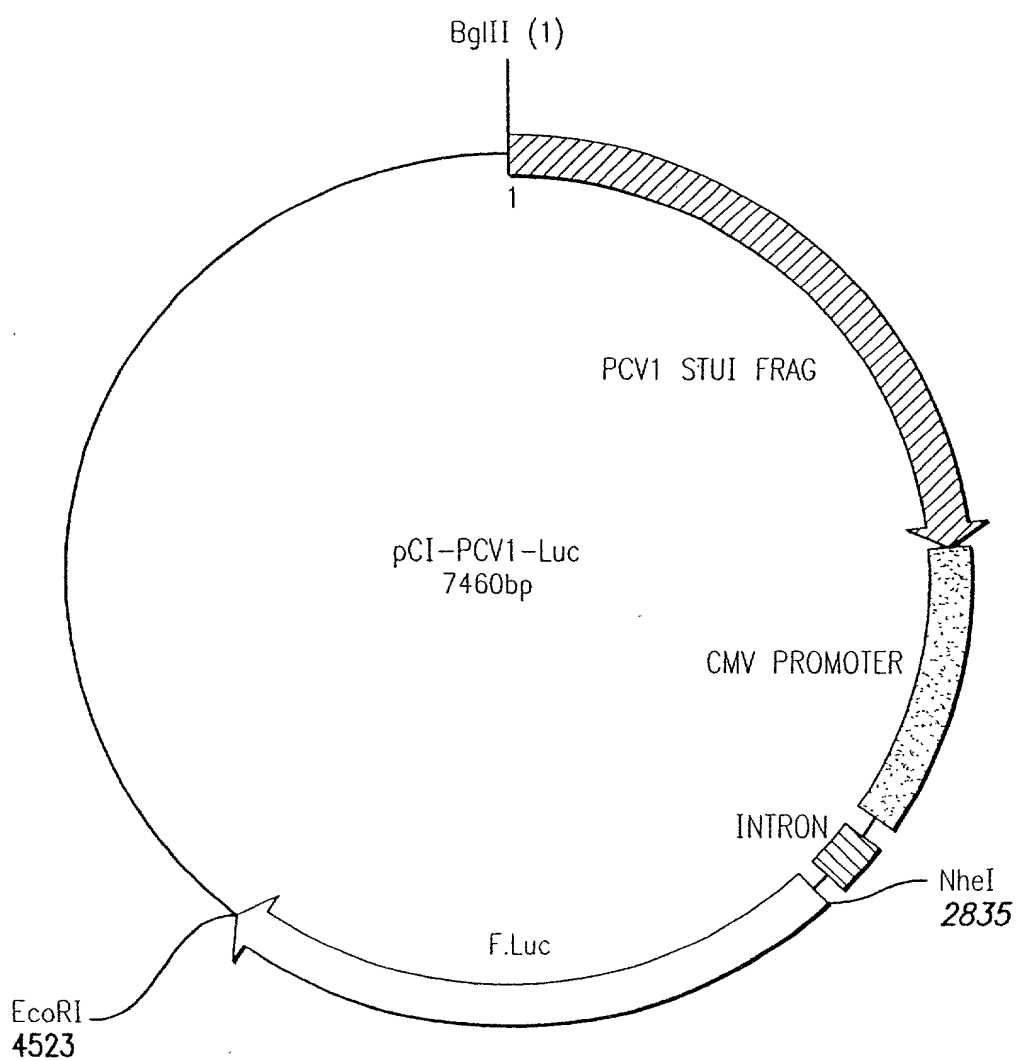


Figure 7

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1 AGATCTAGGC CTGTGTGGTC GACATTGGTG TGGGTATTTA AATGGAGCCA CAGCTGGTTT  
TCTAGATCCG GACACACCAG CTGTAACCAC ACCCATAAAT TTACCTCGGT GTCGACCAAA

61 CTTTTATTAT TTGGCTGGAA CCAATCAATT GTTTGGTCCA GCTCAGGTTT GGGGGTGAAG  
GAAAATAATA AACCGACCTT GGTTAGTTAA CAAACCAGGT CGAGTCCAAA CCCCCACTTC

121 TACCTGGAGT GGTAGGTAAA GGGCTGCCTT ATGGTGTGGC GGGAGGAGTA GTTAATATAG  
ATGGACCTCA CCATCCATTT CCCGACGGAA TACCACACCG CCCTCCTCAT CAATTATATC

181 GGGTCATAGG CCAAGTTGGT GGAGGGGGTT ACAAAGTTGG CATCCAAGAT AACAGCAGTG  
CCCAGTATCC GGTTCACCA CCTCCCCAA TGTTTCAACC GTAGGTTCTA TTGTCGTCAC

241 GACCCAACAC CTCTTTGATT AGAGGTGATG GGGTCTCTGG GGTAAAATTC ATATTTAGCC  
CTGGGTTGTG GAGAACTAA TCTCCACTAC CCCAGAGACC CCATTTTAAG TATAAATCGG

301 TTTCTAATAC GGTAGTATTG GAAAGGTAGG GGTAGGGGGT TGGTGCCGCC TGAGGGGGGG  
AAAGATTATG CCATCATAAC CTTTCCATCC CCATCCCCCA ACCACGGCGG ACTCCCCCCC

361 AGGAACTGGC CGATGTTGAA TCTGAGCTGG TTAACATTCC AAGATGGCTG CGAGTGTCTT  
TCCTTGACCG GCTACAACCTT AGACTCGACC AATTGTAAGG TTCTACCGAC GTCACAGGA

421 CCTTCTATGG TGAGTACAAA TTCTCTAGAA AGGCGGCAAT TGAAGATACC CGTCTTTCGG  
GGAAGATACC ACTCATGTTT AAGAGATCTT TCCGCCGTTA ACTTCTATGG GCAGAAAGCC

481 CGCCATCTGT AACGGTTTCT GAAGGCGGGG TGTGCCAAAT ATGGTCTTCT GCGGAGGATG  
GCGGTAGACA TTGCCAAAGA CTTCCGCCCC ACACGGTTTA TACCAGAAGA CGCCTCCTAC

541 TTTCCAAGAT GGCTGCGGGG GCGGGTCCTT CTTCTGCGGT AACGCCTCCT TGGCCACGTC  
AAAGGTTCTA CCGACGCCCC CGCCCAGGAA GAAGACGCCA TTGCGGAGGA ACCGGTGCAG

601 ATCCTATAAA AGTGAAAGAA GTGCGCTGCT GTAGTATTAC CAGCGCACTT CGGCAGCGGC  
TAGGATATTT TCACTTTCTT CACGCGACGA CATCATAATG GTCGCGTGAA GCCGTCGCCG

661 AGCACCTCGG CAGCGTCGGT GAAAATGCCA AGCAAGAAAA GCGGCCCCGA ACCCCATAAG  
TCGTGGAGCC GTCGCGACCA CTTTACGGT TCGTTCTTTT CGCCGGGCGT TGGGGTATTC

Figure 8-1

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721 AGGTGGGTGT TCACCCTTAA TAATCCTTCC GAGGAGGAGA AAAACAAAAT ACGGGAGCTT  
 TCCACCCACA AGTGGGAATT ATTAGGAAGG CTCCTCCTCT TTTTGTTTTA TGCCCTCGAA  
  
 781 CCAATCTCCC TTTTGTGATTA TTTTGTTTGC GGAGAGGAAG GTTTGGAAGA GGGTAGAACT  
 GGTTAGAGGG AAAAATAAT AAAACAAACG CCTCTCCTTC CAAACCTTCT CCCATCTTGA  
  
 841 CCTCACCTCC AGGGGTTTGC GAATTTTGCT AAGAAGCAGA CTTTAAACAA GGTGAAGTGG  
 GGAGTGGAGG TCCCCAAACG CTTAAACGA TTCTTCGTCT GAAAATTGTT CCACTTCACC  
  
 901 TATTTTGGTG CCCGCTGCCA CATCGAGAAA GCGAAAGGAA CCGACCAGCA GAATAAGAA  
 ATAAAACCAC GGGCGACGGT GTAGCTCTTT CGCTTTCCTT GGCTGGTCGT CTTATTTCTT  
  
 961 TACTGCAGCT GCAGTAAAGA AGGCCACATA CTTATCGAGT GTGGAGCTCC GCGGAACCAG  
 ATGACGTCGA CGTCATTTCT TCCGGTGTAT GAATAGCTCA CACCTCGAGG CGCCTTGGTC  
  
 1021 GGAAGCGCA GCGACCTGTC TACTGCTGTG AGTACCCCTT TGGAGACGGG GTCTTTGGTG  
 CCCTTCGCGT CGCTGGACAG ATGACGACAC TCATGGGAAA ACCTCTGCCC CAGAAACCAC  
  
 1081 ACTGTAGCCG AGCAGTTCCC TGTAACGTAT GTGAGAAATT TCCGCGGGCT GGCTGAACTT  
 TGACATCGGC TCGTCAAGGG ACATTGCATA CACTCTTTAA AGGCGCCCCG CCGACTTGAA  
  
 1141 TTGAAAGTGA GCGGGAAGAT GCAGCAGCGT GATTGGAAGA CAGCTGTACA CGTCATAGTG  
 AACTTTCCT CGCCCTTCTA CGTCGTCGCA CTAACCTTCT GTCGACATGT GCAGTATCAC  
  
 1201 GGCCCGCCCG GTTGTGGGAA GAGCCAGTGG GCCCCTAATT TTGCTGAGCC TAGCGACACC  
 CCGGGCGGGC CAACACCCTT CTCGGTCACC CGGGCATTA AACGACTCGG ATCGCTGTGG  
  
 1261 TACTGGAAGC CTAGTAGAAA TAAGTGGTGG GATGGATATC ATGGAGAAGA AGTTGTTGTT  
 ATGACCTTCG GATCATCTTT ATTCAACCACC CTACCTATAG TACCTCTTCT TCAACAACAA  
  
 1321 TTGGATGATT TTTATGGCTG GTTACCTTGG GATGATCTAC TGAGACTGTG TGACCGGTAT  
 AACCTACTAA AAATACCGAC CAATGGAACC CTACTAGATG ACTCTGACAC ACTGGCCATA  
  
 1381 CCATTGACTG TAGAGACTAA AGGGGGTACT GTTCCTTTTT TGGCCCGCAG TATTTTGATT  
 GGTAAGTAC ATCTCTGATT TCCCCATGA CAAGGAAAA ACCGGGCGTC ATAAAATAA  
  
 1441 ACCAGCAATC AGGCCCCCA GGAATGGTAC TCCTCAACTG CTGTCCCAGC TGTAGAAGCT

Figure 8-2

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TGGTCGTTAG TCCGGGGGGT CCTTACCATG AGGAGTTGAC GACAGGGGTCG ACATCTTCGA  
 1501 CTCTATCGGA GGATTACTAC TTTGCAATTT TGGAAGACTG CTGGAGAACA ATCCACGGAG  
 GAGATAGCCT CCTAATGATG AAACGTTAAA ACCTTCTGAC GACCTCTTGT TAGGTGCCTC  
 1561 GTACCCGAAG GCCGATTTGA AGCAGTGGAC CCACCCTGTG CCCTTTTCCC ATATAAATA  
 CATGGGCTTC CGGCTAAACT TCGTCACCTG GGTGGGACAC GGGAAAAGGG TATATTTTAT  
 1621 AATTACTGAG TCTTTTTTGT TATCACATCG TAATGGTTTT TATTTTTATT CATTTAGAGG  
 TTAATGACTC AGAAAAACA ATAGTGTAGC ATTACCAAAA ATAAAAATAA GTAAATCTCC  
 1681 GTCTTTTAGG ATAAATTCTC TGAATTGTAC ATAAATAGTC AGCCTTACCA CATAATTTTG  
 CAGAAAATCC TATTTAAGAG ACTTAACATG TATTTATCAG TCGGAATGGT GTATTAAAC  
 1741 GGCTGTGGCT GCATTTTGGG GCGCATAGCC GAGGCCTGGA TCTTCAATAT TGGCCATTAG  
 CCGACACCGA CGTAAACCT CGCGTATCGG CTCCGGACCT AGAAGTTATA ACCGGTAATC  
 1801 CCATATTATT CATTGGTTAT ATAGCATAAA TCAATATTGG CTATTGGCCA TTGCATACGT  
 GGTATAATAA GTAACCAATA TATCGTATTT AGTTATAACC GATAACCGGT AACGTATGCA  
 1861 TGTATCTATA TCATAATATG TACATTTATA TTGGCTCATG TCCAATATGA CCGCCATGTT  
 ACATAGATAT AGTATTATAC ATGTAAATAT AACCAGGTAC AGGTTATACT GCGGGTACAA  
 1921 GGCATTGATT ATTGACTAGT TATTAATAGT AATCAATTAC GGGGTCATTA GTTCATAGCC  
 CCGTAACTAA TAACTGATCA ATAATTATCA TTAGTTAATG CCCCAGTAAT CAAGTATCGG  
 1981 CATATATGGA GTTCCGCGTT ACATAACTTA CGGTAAATGG CCCGCCTGGC TGACCGCCCA  
 GTATATACCT CAAGGCGCAA TGTATTGAAT GCCATTTACC GGGCGGACCG ACTGGCGGGT  
 2041 ACGACCCCG CCCATTGACG TCAATAATGA CGTATGTTCC CATAGTAACG CCAATAGGGA  
 TGCTGGGGG GGGTAACTGC AGTTATTACT GCATACAAGG GTATCATTGC GGTTATCCCT  
 2101 CTTTCCATTG ACGTCAATGG GTGGAGTATT TACGGTAAAC TGCCCACTTG GCAGTACATC  
 GAAAGGTAAC TGCAGTTACC CACCTCATAA ATGCCATTTG ACGGGTGAAC CGTCATGTAG  
 2161 AAGTGTATCA TATGCCAAGT CCGCCCCCTA TTGACGTCAA TGACGGTAAA TGGCCCGCCT  
 TTCACATAGT ATACGGTTCA GCGGGGGGAT AACTGCAGTT ACTGCCATTT ACCGGGCGGA

Figure 8-3

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2221 GGCATTATGC CCAGTACATG ACCTTACGGG ACTTTCCTAC TTGGCAGTAC ATCTACGTAT  
 CCGTAATACG GGTCATGTAC TGGAATGCCC TGAAAGGATG AACCGTCATG TAGATGCATA  
  
 2281 TAGTCATCGC TATTACCATG GTGATGCGGT TTTGGCAGTA CACCAATGGG CGTGGATAGC  
 ATCAGTAGCG ATAATGGTAC CACTACGCCA AAACCGTCAT GTGGTTACCC GCACCTATCG  
  
 2341 GGTTTGACTC ACGGGGATTT CCAAGTCTCC ACCCCATTGA CGTCAATGGG AGTTTGTTTT  
 CCAAAGTGA TGCCCCATAA GGTTTCAAGG TGGGGTAACT GCAGTTACCC TCAAACAAAA  
  
 2401 GGCACCAAAA TCAACGGGAC TTTCCAAAAT GTCGTAATAA CCCC GCCCCG TTGACGCAAA  
 CCGTGTTTTT AGTTGCCCTG AAAGGTTTTA CAGCATTATT GGGGCGGGGC AACTGCGTTT  
  
 2461 TGGGCGGTAG GCGGTACGG TGGGAGGTCT ATATAAGCAG AGCTCGTTTA GTGAACCGTC  
 ACCCGCCATC CGCACATGCC ACCCTCCAGA TATATTCGTC TCGAGCAAAT CACTTGGCAG  
  
 2521 AGATCACTAG AAGCTTTATT GCGGTAGTTT ATCACAGTTA AATTGCTAAC GCAGTCAGTG  
 TCTAGTGATC TTCGAAATAA CGCCATCAA TAGTGTCAAT TTAACGATTG CGTCAGTCAC  
  
 2581 CTTCTGACAC AACAGTCTCG AACTTAAGCT GCAGAAGTTG GTCGTGAGGC ACTGGGCAGG  
 GAAGACTGTG TTGTCAGAGC TTGAATTCGA CGTCTTCAAC CAGCACTCCG TGACCCGTCC  
  
 2641 TAAGTATCAA GGTTACAAGA CAGGTTTAAG GAGACCAATA GAAACTGGGC TTGTCGAGAC  
 ATTCATAGTT CCAATGTTCT GTCCAAATTC CTCTGGTTAT CTTTGACCCG AACAGCTCTG  
  
 2701 AGAGAAGACT CTTGCGTTTC TGATAGGCAC CTATTGGTCT TACTGACATC CACTTTGCCT  
 TCTCTTCTGA GAACGCAAAG ACTATCCGTG GATAACCAGA ATGACTGTAG GTGAAACGGA  
  
 2761 TTCTCTCCAC AGGTGTCCAC TCCCAGTTCA ATTACAGCTC TTAAGGCTAG AGTACTTAAT  
 AAGAGAGGTG TCCACAGGTG AGGGTCAAGT TAATGTCGAG AATCCGATC TCATGAATTA  
  
 2821 ACGACTCACT ATAGGCTAGC AAGATCTCCT AGGAAGCTTT CCATGGAAGA CGCCAAAAAC  
 TGCTGAGTGA TATCCGATCG TTCTAGAGGA TCCTTCGAAA GGTACCTTCT GCGGTTTTTG  
  
 2881 ATAAAGAAAG GCCCGGCGCC ATTCTATCCG CTGGAAGATG GAACCGCTGG AGAGCAACTG  
 TATTTCTTTC CGGGCCGCGG TAAGATAGGC GACCTTCTAC CTTGGCGACC TCTCGTTGAC  
  
 2941 CATAAGGCTA TGAAGAGATA CGCCCTGGTT CCTGGAACAA TTGCTTTTAC AGATGCACAT  
 GTATTCCGAT ACTTCTCTAT GCGGGACCAA GGACCTTGTT AACGAAAATG TCTACGTGTA

Figure 8-4

14/25

3001 ATCGAGGTGG ACATCACTTA CGCTGAGTAC TTCGAAATGT CCGTTCGGTT GGCAGAAGCT  
 TAGCTCCACC TGTAGTGAAT GCGACTCATG AAGCTTTACA GGCAAGCCAA CCGTCTTCGA  
  
 3061 ATGAAACGAT ATGGGCTGAA TACAAATCAC AGAATCGTCG TATGCAGTGA AAACCTCTCTT  
 TACTTTGCTA TACCCGACTT ATGTTTAGTG TCTTAGCAGC ATACGTCAC TTTGAGAGAA  
  
 3121 CAATTCTTTA TGCCGGTGTT GGGCGCGTTA TTTATCGGAG TTGCAGTTGC GCCCGCGAAC  
 GTTAAGAAAT ACGGCCACAA CCCGCGCAAT AAATAGCCTC AACGTCAACG CGGGCGCTTG  
  
 3181 GACATTTATA ATGAACGTGA ATTGCTCAAC AGTATGGGCA TTTCGCAGCC TACCGTGGTG  
 CTGTAAATAT TACTTGCACT TAACGAGTTG TCATACCCGT AAAGCGTCGG ATGGCACCAC  
  
 3241 TTCGTTTCCA AAAAGGGGTT GCAAAAAATT TTGAACGTGC AAAAAAGCT CCCAATCATC  
 AAGCAAAGGT TTTTCCCCAA CGTTTTTTAA AACTTGCACG TTTTTTTCGA GGGTTAGTAG  
  
 3301 CAAAAAATTA TTATCATGGA TTCTAAAACG GATTACCAGG GATTTCACTC GATGTACACG  
 GTTTTTTAAT AATAGTACCT AAGATTTTGC CTAATGGTCC CTAAAGTCAG CTACATGTGC  
  
 3361 TTCGTCACAT CTCATCTACC TCCCGGTTTT AATGAATACG ATTTTGTGCC AGAGTCCTTC  
 AAGCAGTGTA GAGTAGATGG AGGGCCAAAA TTACTTATGC TAAACACGG TCTCAGGAAG  
  
 3421 GATAGGGACA AGACAATTGC ACTGATCATG AACTCCTCTG GATCTACTGG TCTGCCTAAA  
 CTATCCCTGT TCTGTTAACG TGA CTAGTAGTAC TTGAGGAGAC CTAGATGACC AGACGGATTT  
  
 3481 GGTGTCGCTC TGCCTCATAG AACTGCCTGC GTGAGATTCT CGCATGCCAG AGATCCTATT  
 CCACAGCGAG ACGGAGTATC TTGACGGACG CACTCTAAGA GCGTACGGTC TCTAGGATAA  
  
 3541 TTTGGCAATC AAATCATTCC GGATACTGCG ATTTTAAGTG TTGTTCCATT CCATCACGGT  
 AAACCGTTAG TTTAGTAAGG CCTATGACGC TAAAATTAC AACAAGGTAA GGTAGTGCCA  
  
 3601 TTTGGAATGT TTA CTACACT CGGATATTTG ATATGTGGAT TTCGAGTCGT CTTAATGTAT  
 AAACCTTACA AATGATGTGA GCCTATAAAC TATACACCTA AAGCTCAGCA GAATTACATA  
  
 3661 AGATTTGAAG AAGAGCTGTT TCTGAGGAGC CTTCAGGATT ACAAGATTCA AAGTGCGCTG  
 TCTAAACTTC TTCTCGACAA AGACTCCTCG GAAGTCCTAA TGTTCTAAGT TTCACGCGAC  
  
 3721 CTGGTGCCAA CCCTATTCTC CTTCTTCGCC AAAAGCACTC TGATTGACAA ATACGATTTA

Figure 8-5

15/25

GACCACGGTT GGGATAAGAG GAAGAAGCGG TTTTCGTGAG ACTAACTGTT TATGCTAAAT  
 3781 TCTAATTTAC ACGAAATTGC TTCTGGTGGC GCTCCCCTCT CTAAGGAAGT CGGGGAAGCG  
 AGATTAAATG TGCTTTAACG AAGACCACCG CGAGGGGAGA GATTCCCTTCA GCCCCTTCGC  
 3841 GTTGCCAAGA GGTTCCATCT GCCAGGTATC AGGCAAGGAT ATGGGCTCAC TGAGACTACA  
 CAACGGTTCT CCAAGGTAGA CGGTCCATAG TCCGTTCCCTA TACCCGAGTG ACTCTGATGT  
 3901 TCAGCTATTC TGATTACACC CGAGGGGGAT GATAAACCAG GCGCGGTCGG TAAAGTTGTT  
 AGTCGATAAG ACTAATGTGG GCTCCCCCTA CTATTTGGCC CGCGCCAGCC ATTTCAACAA  
 3961 CCATTTTTTTG AAGCGAAGGT TGTGGATCTG GATACCGGGA AAACGCTGGG CGTTAATCAA  
 GGTAATAAAC TTCGCTTCCA ACACCTAGAC CTATGGCCCT TTTGCGACCC GCAATTAGTT  
 4021 AGAGGCGAAC TGTGTGTGAG AGGTCCTATG ATTATGTCCG GTTATGTAAA CAATCCGGAA  
 TCTCCGCTTG ACACACACTC TCCAGGATAC TAATACAGGC CAATACATTT GTTAGGCCTT  
 4081 GCGACCAACG CCTTGATTGA CAAGGATGGA TGGCTACATT CTGGAGACAT AGCTTACTGG  
 CGCTGGTTGC GGAACCTAAT GTTCCTACCT ACCGATGTAA GACCTCTGTA TCGAATGACC  
 4141 GACGAAGACG AACACTTCTT CATCGTTGAC CGCCTGAAGT CTCTGATTAA GTACAAAGGC  
 CTGCTTCTGC TTGTGAAGAA GTAGCAACTG GCGGACTTCA GAGACTAATT CATGTTTCCG  
 4201 TATCAGGTGG CTCCCGCTGA ATTGGAATCC ATCTTGCTCC AACACCCCAA CATCTTCGAC  
 ATAGTCCACC GAGGGCGACT TAACCTTAGG TAGAACGAGG TTGTGGGGTT GTAGAAGCTG  
 4261 GCAGGTGTCG CAGGTCTTCC CGACGATGAC GCCGGTGAAC TTCCCGCCGC CGTTGTTGTT  
 CGTCCACAGC GTCCAGAAGG GCTGCTACTG CGGCCACTTG AAGGGCGGCG GCAACAACAA  
 4321 TTGGAGCACG GAAAGACGAT GACGGAAAAA GAGATCGTGG ATTACGTCGC CAGTCAAGTA  
 AACCTCGTGC CTTTCTGCTA CTGCCTTTTT CTCTAGCACC TAATGCAGCG GTCAGTTCAT  
 4381 ACAACCGCGA AAAAGTTGCG CGGAGGAGTT GTGTTTGTGG ACGAAGTACC GAAAGGTCTT  
 TGTTGGCGCT TTTTCAACGC GCCTCCTCAA CACAAACACC TGCTTCATGG CTTTCCAGAA  
 4441 ACCGGAAC TCGACGCAAG AAAATCAGA GAGATCCTCA TAAAGGCCAA GAAGGGCGGA  
 TGGCCTTTTG AGCTGCGTTC TTTTGTAGTCT CTCTAGGAGT ATTTCCGGTT CTTCCCGCCT

Figure 8-6

16/25

4501 AAGATCGCCG TGTAATTCTA GAGAATTCAC GCGTGGTACC TCTAGAGTCG ACCCGGGCGG  
TTCTAGCGGC ACATTAAGAT CTCTTAAGTG CGCACCATGG AGATCTCAGC TGGGCCCGCC

4561 CCGCTTCGAG CAGACATGAT AAGATACATT GATGAGTTTG GACAAACCAC AACTAGAATG  
GGCGAAGCTC GTCTGTACTA TTCTATGTAA CTACTCAAAC CTGTTTGGTG TTGATCTTAC

4621 CAGTGAAAAA AATGCTTTAT TTGTGAAATT TGTGATGCTA TTGCTTTATT TGTAACCATT  
GTCACTTTTT TTACGAAATA AACACTTTAA ACACTACGAT AACGAAATAA ACATTGGTAA

4681 ATAAGCTGCA ATAAACAAGT TAACAACAAC AATTGCATTC ATTTTATGTT TCAGGTTTCAG  
TATTCGACGT TATTTGTTCA ATTGTTGTTG TTAACGTAAG TAAAATACAA AGTCCAAGTC

4741 GGGGAGATGT GGGAGGTTTT TTAAAGCAAG TAAAACCTCT ACAAATGTGG TAAAATCGAT  
CCCCCTCTACA CCCTCCAAA AATTTCGTTC ATTTTGGAGA TGTTTACACC ATTTTAGCTA

4801 AAGGATCCGG GCTGGCGTAA TAGCGAAGAG GCGCGCACCG ATCGCCCTTC CCAACAGTTG  
TTCCTAGGCC CGACCGCATT ATCGCTTCTC CGGGCGTGGC TAGCGGGAAG GGT'TGTCAAC

4861 CGCAGCCTGA ATGGCGAATG GACGCGCCCT GTAGCGGCGC ATTAAGCGCG GCGGGTGTGG  
GCGTCGGACT TACCGCTTAC CTGCGCGGGA CATCGCCGCG TAATTGCGCG CGCCACACC

4921 TGGTTACGCG CAGCGTGACC GCTACACTTG CCAGCGCCCT AGCGCCCGCT CCTTTCGCTT  
ACCAATGCGC GTCGCACTGG CGATGTGAAC GGTCGCGGGA TCGCGGGCGA GGAAAGCGAA

4981 TCTTCCCTTC CTTTCTCGCC ACGTTCGCCG GCTTTCCCCG TCAAGCTCTA AATCGGGGGC  
AGAAGGGAAG GAAAGAGCGG TGCAAGCGGC CGAAAGGGGC AGTTCGAGAT TTAGCCCCCG

5041 TCCCTTTAGG GTTCCGATTT AGTGCTTTAC GGCACCTCGA CCCCCAAAAA CTTGATTAGG  
AGGGAAATCC CAAGGCTAAA TCACGAAATG CCGTGGAGCT GGGGTTTTTT GAACTAATCC

5101 GTGATGGTTC ACGTAGTGGG CCATCGCCCT GATAGACGGT TTTTCGCCCT TTGACGTTGG  
CACTACCAAG TGCATCACCC GGTAGCGGGA CTATCTGCCA AAAAGCGGGA AACTGCAACC

5161 AGTCCACGTT CTTTAATAGT GGA CTCTTGT TCCAAACTGG AACAACTC AACCTATCT  
TCAGGTGCAA GAAATTATCA CCTGAGAACA AGGTTTGACC TTGTTGTGAG TTGGGATAGA

5221 CGGTCTATTC TTTTGATTTA TAAGGGATTT TGCCGATTTT GGCCTATTGG TTA AAAAATG  
GCCAGATAAG AAAACTAAAT ATTCCTTAAA ACGGCTAAAG CCGGATAACC AATTTTTTAC

Figure 8-7



17/25

5281 AGCTGATTTA ACAAAAATTT AACGCGAATT TTAACAAAAT ATTAACGCTT ACAATTTCTT  
TCGACTAAAT TGTTTTTAAA TTGCGCTTAA AATTGTTTTA TAATTGCGAA TGTTAAAGGA

5341 GATGCGGTAT TTTCTCCTTA CGCATCTGTG CGGTATTTCA CACCGCATAT GGTGCACTCT  
CTACGCCATA AAAGAGGAAT GCGTAGACAC GCCATAAAGT GTGGCGTATA CCACGTGAGA

5401 CAGTACAATC TGCTCTGATG CCGCATAGTT AAGCCAGCCC CGACACCCGC CAACACCCGC  
GTCATGTTAG ACGAGACTAC GGCATATCAA TTCGGTCGGG GCTGTGGGCG GTTGTGGGCG

5461 TGACGCGCCC TGACGGGCTT GTCTGCTCCC GGCATCCGCT TACAGACAAG CTGTGACCGT  
ACTGCGCGGG ACTGCCCCAA CAGACGAGGG CCGTAGGCGA ATGTCTGTTC GACACTGGCA

5521 CTCCGGGAGC TGCATGTGTC AGAGGTTTTT ACCGTCATCA CCGAAACGCG CGAGACGAAA  
GAGGCCCTCG ACGTACACAG TCTCCAAAAG TGGCAGTAGT GGCTTTGCGC GCTCTGCTTT

5581 GGGCCTCGTG ATACGCCTAT TTTTATAGGT TAATGTCATG ATAATAATGG TTTCTTAGAC  
CCCGGAGCAC TATGCGGATA AAAATATCCA ATTACAGTAC TATTATTACC AAAGAATCTG

5641 GTCAGGTGGC ACTTTTCGGG GAAATGTGCG CGGAACCCCT ATTTGTTTAT TTTTCTAAAT  
CAGTCCACCG TGAAAAGCCC CTTTACACGC GCCTTGGGGA TAAACAAATA AAAAGATTTA

5701 ACATTCAAAT ATGTATCCGC TCATGAGACA ATAACCCTGA TAAATGCTTC AATAATATTG  
TGTAAGTTTA TACATAGGCG AGTACTCTGT TATTGGGACT ATTTACGAAG TTATTATAAC

5761 AAAAAGGAAG AGTATGAGTA TTCAACATTT CCGTGTGCGC CTTATTCCCT TTTTTCGGGC  
TTTTTCCTTC TCATACTCAT AAGTTGTAAA GGCACAGCGG GAATAAGGGA AAAACGCCC

5821 ATTTTGCCCTT CCTGTTTTTG CTCACCCAGA AACGCTGGTG AAAGTAAAAG ATGCTGAAGA  
TAAAACGGAA GGACAAAAAC GAGTGGGTCT TTGCGACCAC TTTCATTTTC TACGACTTCT

5881 TCAGTTGGGT GCACGAGTGG GTTACATCGA ACTGGATCTC AACAGCGGTA AGATCCTTGA  
AGTCAACCCA CGTGCTCACC CAATGTAGCT TGACCTAGAG TTGTCGCCAT TCTAGGAAC

5941 GAGTTTTTCG CCCGAAGAAC GTTTTCCAAT GATGAGCACT TTAAAGTTC TGCTATGTGG  
CTCAAAAGCG GGGCTTCTTG CAAAAGTTA CTAATCGTGA AAATTTCAAG ACGATACACC

6001 CGCGGTATTA TCCCGTATTG ACGCCGGGCA AGAGCAACTC GGTCGCCGCA TACACTATTC

Figure 8-8

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GCGCCATAAT AGGGCATAAC TGCGGCCCGT TCTCGTTGAG CCAGCGGCGT ATGTGATAAG

6061 TCAGAATGAC TTGGTTGAGT ACTCACCAGT CACAGAAAAG CATCTTACGG ATGGCATGAC  
AGTCTTACTG AACCAACTCA TGAGTGGTCA GTGTCTTTTC GTAGAATGCC TACCGTACTG

6121 AGTAAGAGAA TTATGCAGTG CTGCCATAAC CATGAGTGAT AACACTGCGG CCAACTTACT  
TCATTCTCTT AATACGTCAC GACGGTATTG GTACTACTA TTGTGACGCC GGTGAATGA

6181 TCTGACAACG ATCGGAGGAC CGAAGGAGCT AACCGCTTTT TTGCACAACA TGGGGGATCA  
AGACTGTTGC TAGCCTCCTG GCTTCCTCGA TTGGCGAAAA AACGTGTTGT ACCCCCTAGT

6241 TGTAAGTCGC CTTGATCGTT GGAACCGGA GCTGAATGAA GCCATACCAA ACGACGAGCG  
ACATTGAGCG GAACTAGCAA CCCTTGGCCT CGACTTACTT CGGTATGGTT TGCTGCTCGC

6301 TGACACCACG ATGCCTGTAG CAATGGCAAC AACGTTGCGC AAATATTAA CTGGCGAACT  
ACTGTGGTGC TACGGACATC GTTACCGTTG TTGCAACGCG TTTGATAATT GACCGCTTGA

6361 ACTTACTCTA GCTTCCCGGC AACAAATTAAT AGACTGGATG GAGGCGGATA AAGTTGCAGG  
TGAATGAGAT CGAAGGGCCG TTGTAAATTA TCTGACCTAC CTCCGCCTAT TTCAACGTCC

6421 ACCACTTCTG CGCTCGGCCC TTCCGGCTGG CTGGTTTATT GCTGATAAAT CTGGAGCCGG  
TGGTGAAGAC GCGAGCCGGG AAGGCCGACC GACCAAATAA CGACTATTTA GACCTCGGCC

6481 TGAGCGTGGG TCTCGCGGTA TCATTGCAGC ACTGGGGCCA GATGGTAAGC CCTCCCGTAT  
ACTCGCACCC AGAGCGCCAT AGTAACGTCG TGACCCCGGT CTACCATTCG GGAGGGCATA

6541 CGTAGTTATC TACACGACGG GGAGTCAGGC AACTATGGAT GAACGAAATA GACAGATCGC  
GCATCAATAG ATGTGCTGCC CCTCAGTCCG TTGATACCTA CTTGCTTTAT CTGTCTAGCG

6601 TGAGATAGGT GCCTCACTGA TTAAGCATTG GTAAGTGTC GACCAAGTTT ACTCATATAT  
ACTCTATCCA CGGAGTGACT AATTCGTAAC CATTGACAGT CTGGTTCAAA TGAGTATATA

6661 ACTTTAGATT GATTAAAAAC TTCATTTTAA ATTTAAAAGG ATCTAGGTGA AGATCCTTTT  
TGAAATCTAA CTAAATTTTG AAGTAAAAAT TAAATTTTCC TAGATCCACT TCTAGGAAAA

6721 TGATAATCTC ATGACCAAAA TCCCTTAACG TGAGTTTTCG TTCCACTGAG CGTCAGACCC  
ACTATTAGAG TACTGGTTTT AGGGAATTGC ACTCAAAAGC AAGGTGACTC GCAGTCTGGG

Figure 8-9

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6781 CGTAGAAAAG ATCAAAGGAT CTTCTTGAGA TCCTTTTTTT CTGCGCGTAA TCTGCTGCTT  
GCATCTTTTC TAGTTTCCTA GAAGAACTCT AGGAAAAAAA GACGCGCATT AGACGACGAA

6841 GCAAACAAAA AAACCACCGC TACCAGCGGT GGTGTGTTTG CCGGATCAAG AGCTACCAAC  
CGTTTGTTTT TTTGGTGGCG ATGGTCGCCA CCAAACAAAC GGCCTAGTTC TCGATGGTTG

6901 TCTTTTTCCG AAGGTAAGT GCTTCAGCAG AGCGCAGATA CCAAATACTG TTCTTCTAGT  
AGAAAAAGGC TTCCATTGAC CGAAGTCGTC TCGCGTCTAT GGTATATGAC AAGAAGATCA

6961 GTAGCCGTAG TTAGGCCACC ACTTCAAGAA CTCTGTAGCA CCGCTACAT ACCTCGCTCT  
CATCGGCATC AATCCGGTGG TGAAGTTCTT GAGACATCGT GCGGATGTA TGGAGCGAGA

7021 GCTAATCCTG TTACCAGTGG CTGCTGCCAG TGGCGATAAG TCGTGCTTA CCGGGTTGGA  
CGATTAGGAC AATGGTCACC GACGACGGTC ACCGCTATTC AGCACAGAAT GGCCCAACCT

7081 CTCAAGACGA TAGTTACCGG ATAAGGCGCA GCGGTCGGGC TGAACGGGGG GTTCGTGCAC  
GAGTTCTGCT ATCAATGGCC TATTCCGCGT CGCCAGCCCG ACTTGCCCCC CAAGCACGTG

7141 ACAGCCCAGC TTGGAGCGAA CGACCTACAC CGAACTGAGA TACCTACAGC GTGAGCTATG  
TGTCGGGTCG AACCTCGCTT GCTGGATGTG GCTTGACTCT ATGGATGTCG CACTCGATAC

7201 AGAAAGCGCC ACGCTTCCCG AAGGGAGAAA GCGGACAGG TATCCGGTAA GCGGCAGGGT  
TCTTTCGCGG TGCGAAGGGC TTCCCTCTTT CCGCCTGTCC ATAGGCCATT CGCCGTCCCA

7261 CGGAACAGGA GAGCGCACGA GGGAGCTTCC AGGGGGAAAC GCCTGGTATC TTTATAGTCC  
GCCTTGCTCT CTCGCGTGCT CCCTCGAAGG TCCCCCTTG CGGACCATAG AAATATCAGG

7321 TGTCGGGTTT CGCCACCTCT GACTTGAGCG TCGATTTTTG TGATGCTCGT CAGGGGGGCG  
ACAGCCCCAA GCGGTGGAGA CTGAACTCGC AGCTAAAAAC ACTACGAGCA GTCCCCCGC

7381 GAGCCTATGG AAAACGCCA GCAACGCGC CTTTTTACGG TTCCTGGCCT TTTGCTGGCC  
CTCGGATACC TTTTTCGGT CGTTGCGCCG GAAAAATGCC AAGGACCGGA AAACGACCGG

7441 TTTTGCTCAC ATGGCTCGAC  
AAAACGAGTG TACCGAGCTG

Figure 8-10

20/25

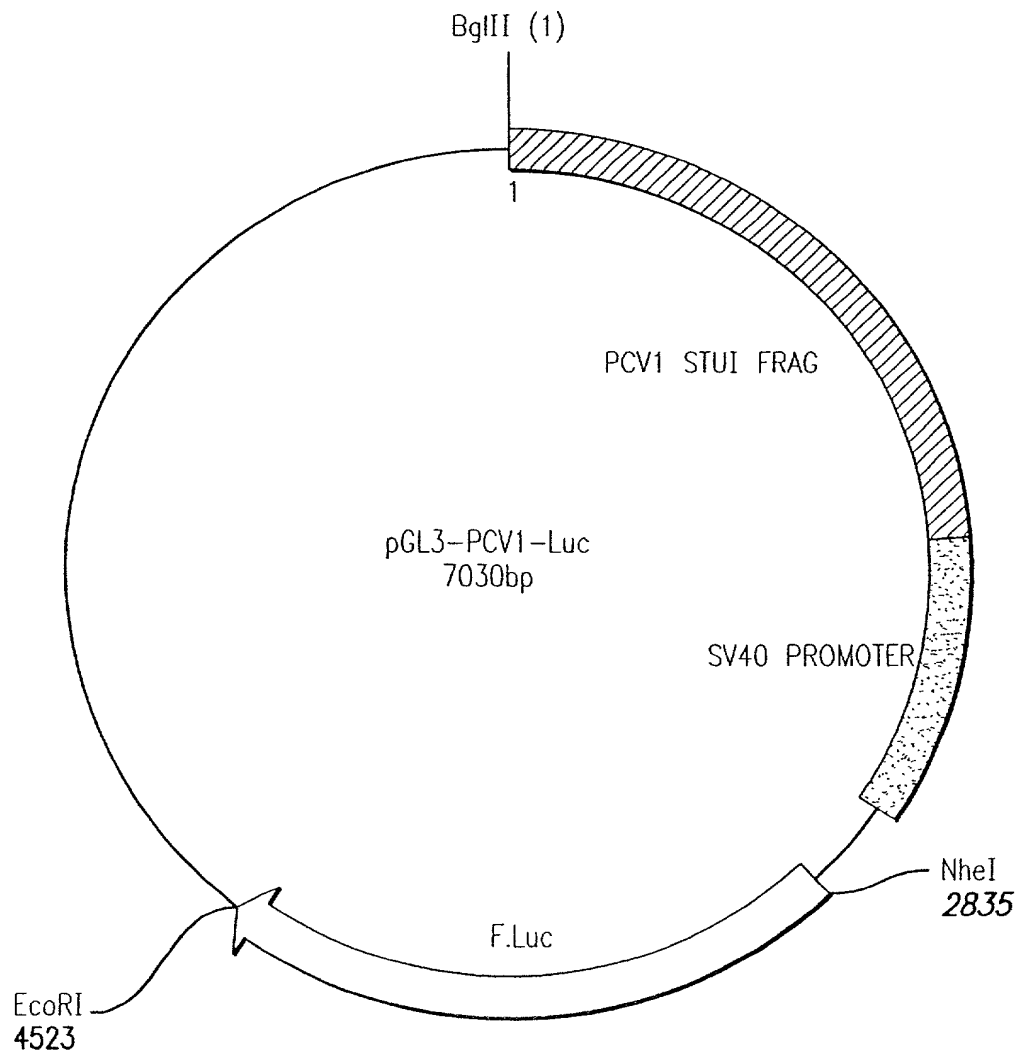


Figure 9

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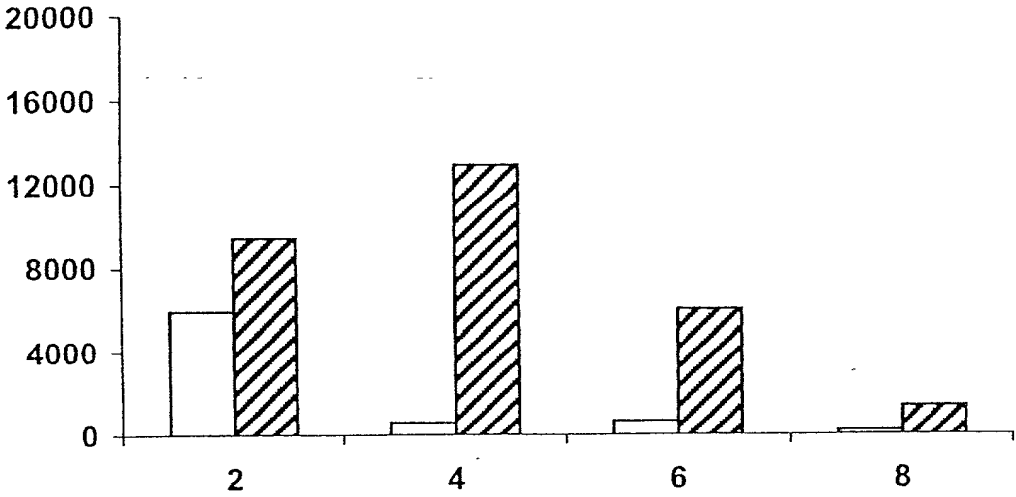


Figure 10A

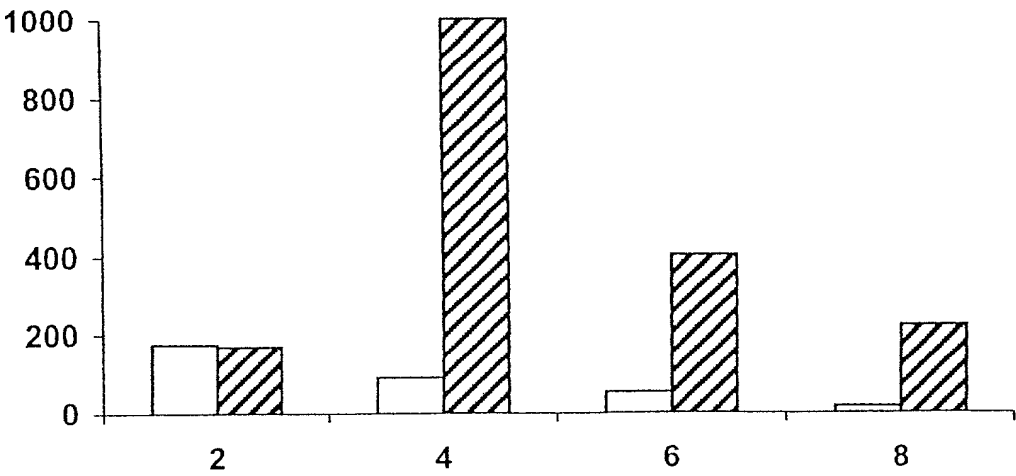


Figure 10B

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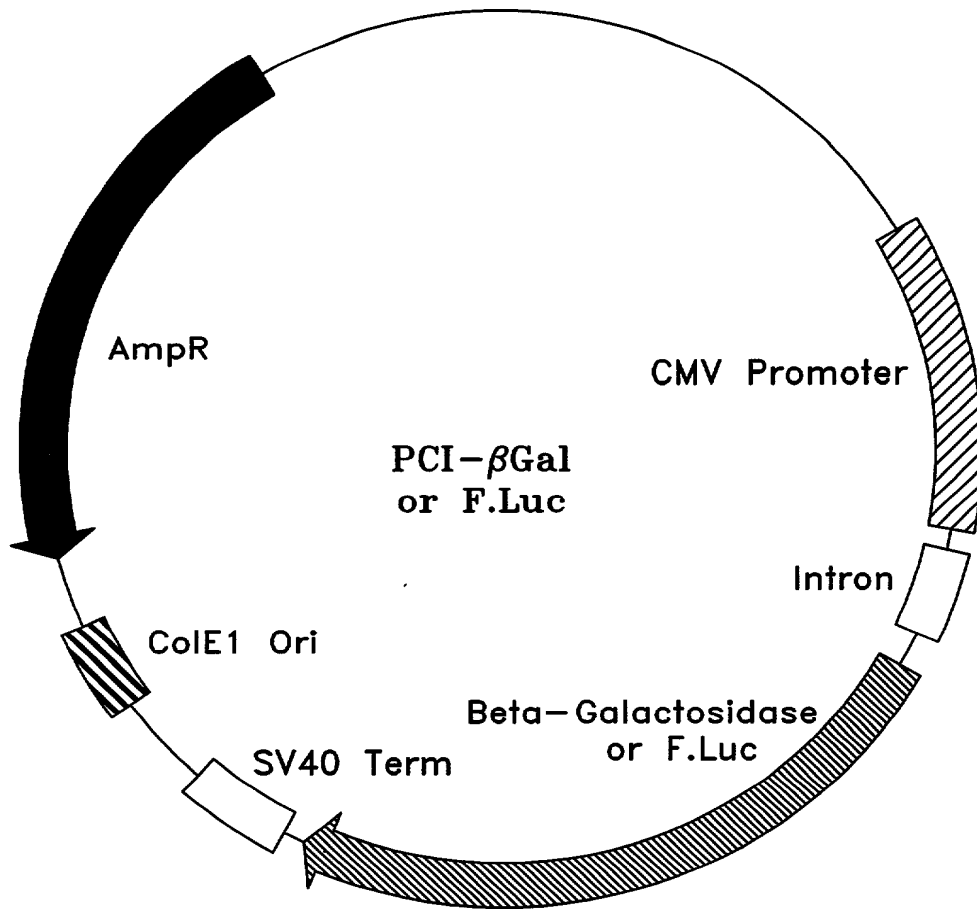


Figure 11A

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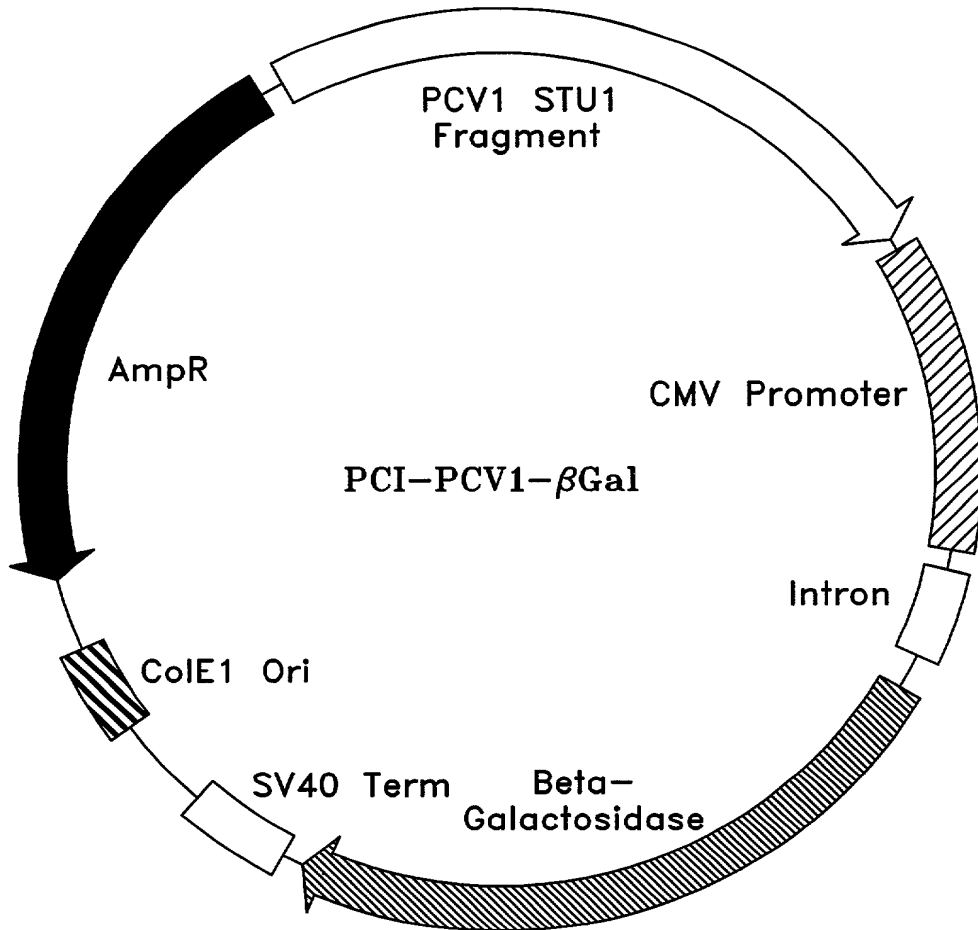


Figure 11B

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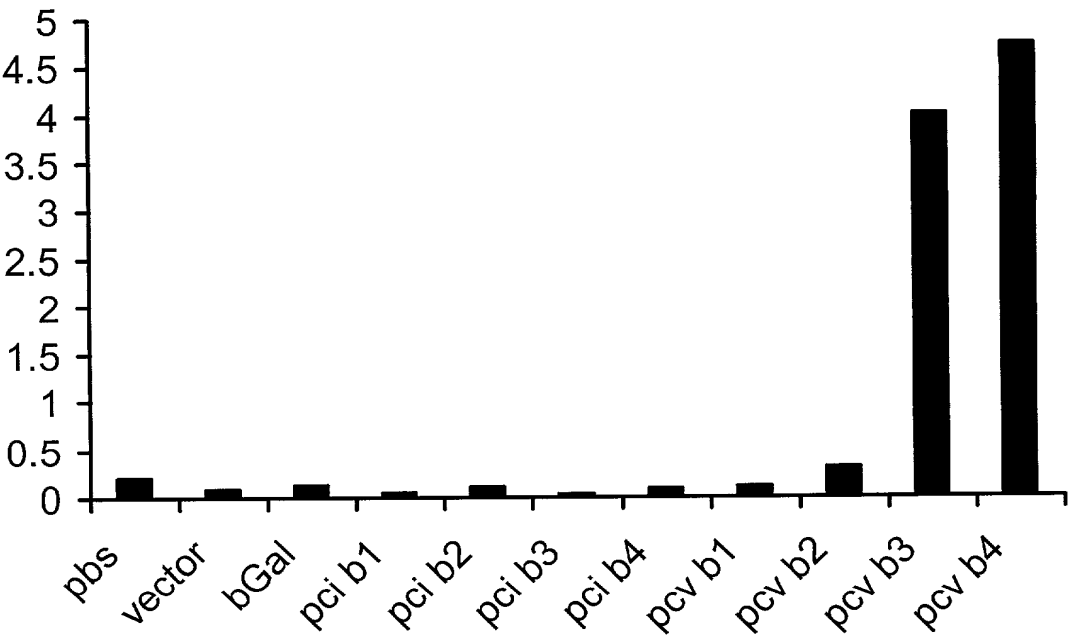


Figure 12A

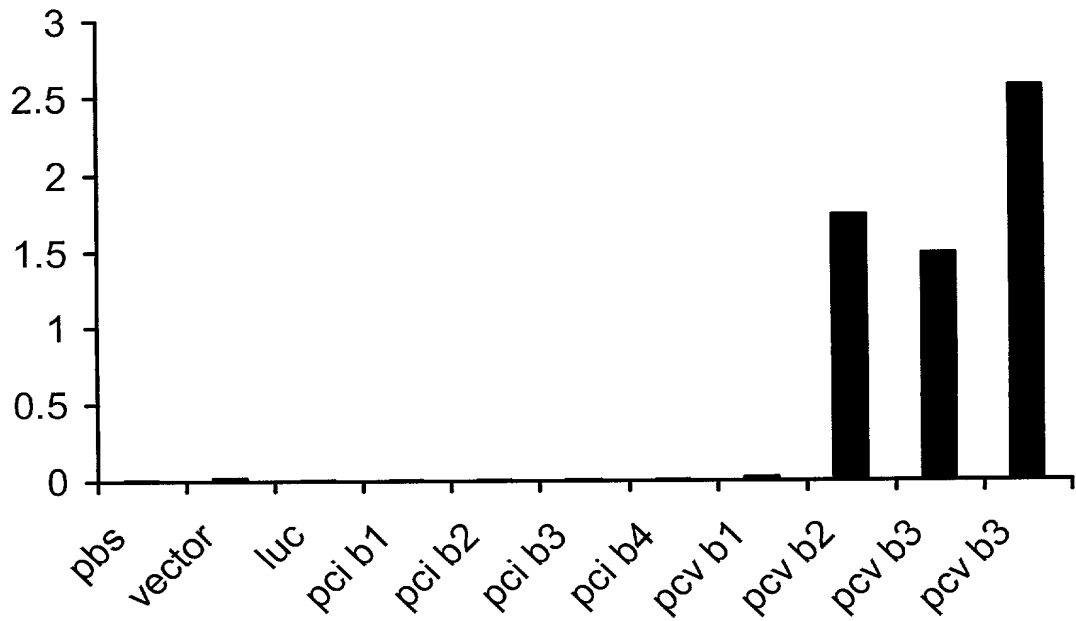


Figure 12B



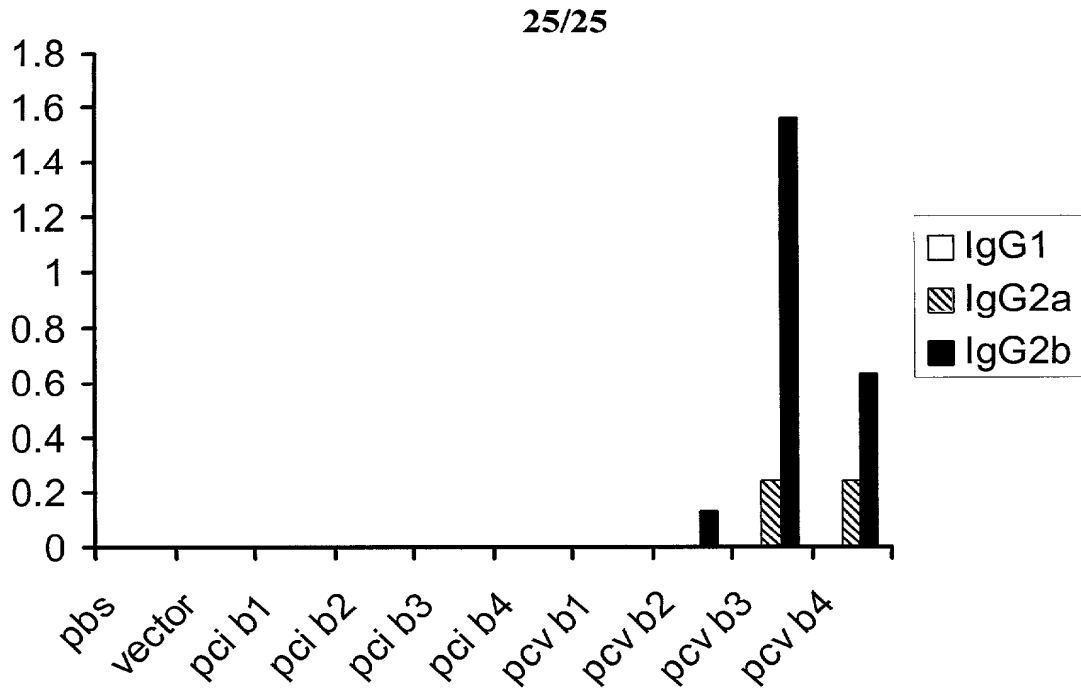


Figure 13A

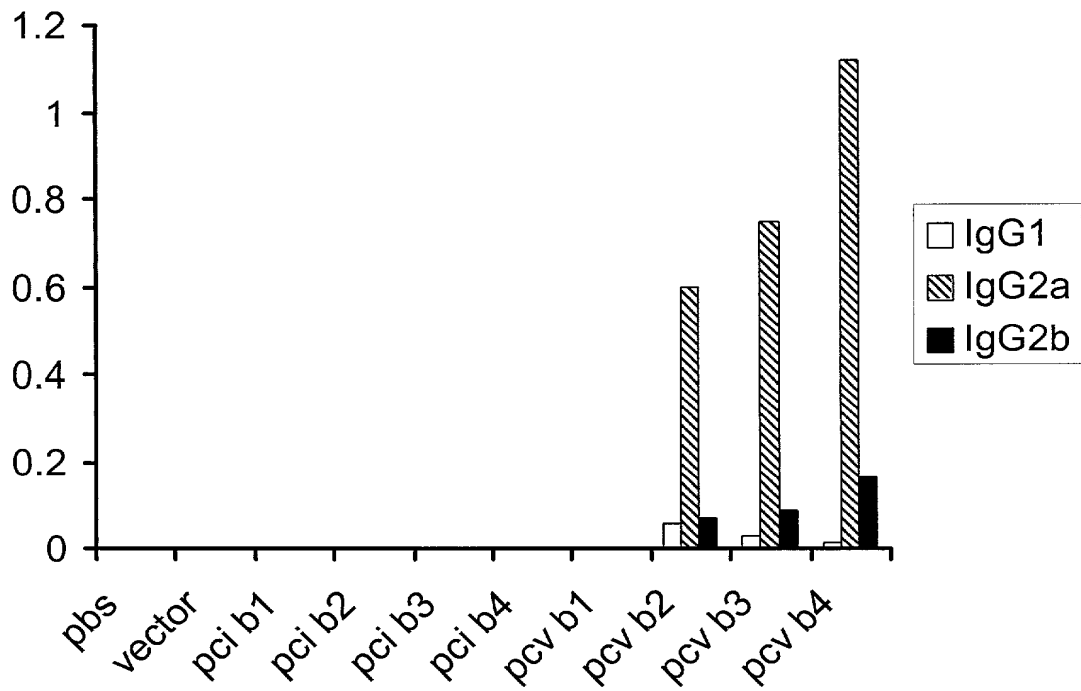


Figure 13B